

ABSTRACT OF THE DISCLOSURE

The transreflectors may comprise a transparent substrate having reflective surfaces and other light transmissive surfaces for respectively reflecting and transmitting a greater portion of the light striking opposite sides of the substrate. Alternatively, the transreflectors may comprise two or more transparent substrates of different indices of refraction bonded together, with a pattern of optical deformities in the mating side of one of the substrates and an inverse pattern of optical deformities in the mating side of an other substrate in mating engagement with each other. The transreflectors are used in a transreflector system or display to transmit more of the light emitted by a backlight or other light source incident on one side of the transreflectors and reflect more of the light incident on the opposite side of the transreflectors. The transreflectors and backlight may be tuned to each other to enable the transreflectors to better transmit more of the light emitted by the backlight.